FLUKE 80 SERIES QUICK REFERENCE GUIDE

⚠ Read Manual. Use safe practices. See warnings, information and power-on options on back of meter.

Input Alert™ — Meter clicks continuously if test lead is connected to **μA**, **mA** or **A** inputs on meter and the **μA**, **mA** or **A** function is not selected.

BLUE BUTTON — Press to toggle between **AC**~ or **DC** ⎓ in **μA**, **mA**, or **A** functions. Press to toggle between Ω (ohm) and ⊣⊢ (capacitance) functions.

HOLD 🄷 — Press HOLD and meter automatically holds each new reading; meter beeps when reading is stable (Touch Hold®). In **Hz**, **%** duty cycle, and MIN MAX, stops all reading updates. Press HOLD again to exit.

RANGE — Meter selects autoranging. Press RANGE for manual ranging (AUTO turns off in display). Changing ranges disables Touch Hold®, MIN MAX, and REL(ative) modes. Press RANGE for 2 seconds to return to autoranging.

MIN MAX — Press MIN MAX to record maximum, minimum, and average readings in memory. Records true average (mean) up to 36 hours. Meter selects manual ranging. Meter beeps when a new min or max value is recorded (MIN MAX Alert™). Toggle MIN MAX to cycle through max, min, average and present readings. Meter selects 100 ms response time, see power-on options to slow response time or disable beeper. Press MIN MAX for 2 seconds to exit and erase readings.

PEAK MIN MAX — Model 87 only. Press MIN MAX, then))))) . Transients (>1ms) or sinewave (<400Hz) peak values are stored. Toggle MIN MAX to see both readings. Press))))) twice to reset values without exiting MIN MAX.

Hz, % Duty — Press **Hz** to enter frequency counter mode, press again to select **%** duty cycle. Press **Hz** again to exit. Press))))) to change input trigger slope. To measure duty cycle of logic signals, select 4V **DC** ⎓ range.

))))) — Select Ω and press))))) for audible continuity tests (meter selects 400Ω range). Threshold is ~10% of each range.

REL
Δ

Press REL to zero display and store the reading as a relative reference. Meter selects manual ranging and zoom bar graph mode (models 83 & 85). Subsequent readings are the difference between reference and present reading. Press REL again to exit.

Displays diode voltage drop to 3.000V. 1mA nominal short circuit current. <3.9V open circuit test voltage. Use Touch Hold® for audible diode tests.

Ω

Full scale voltage <450mV for ranges from 400Ω to 4MΩ. Full scale voltage <1.3V for 40MΩ and **nS**. <500μA short circuit current.

Self Test

Precision 1kΩ test resistor. Select Ω, connect test lead from **VΩ** input to **μA mA** input. Display should be 1.000kΩ ±0.005.

nS

Nanosiemens. Conductance measurement for resistance >40MΩ. Select Ω and manually range until **nS** is displayed. To convert the reading to megohms, divide the number displayed into 1000 (1000/nS reading = MΩ).

Select Ω and press blue button. Meter autoranges to 5.00nF, .0500μF, 0.500μF, or 5.00μF range. Pushbutton response slows in capacitance. For capacitors <5nF, press REL to zero input or test lead capacitance. For capacitors >5μF, use an Ω range shown below and measure the analog display charge time from zero to full scale (OL):

Range	= 400Ω	4kΩ	40kΩ	400kΩ	4MΩ
μF/sec	= 3000	300	30	3	0.3

At least 8 hours of battery life remain when symbol is first displayed.

OL

1000V rms protection in ohms, diode test, and volts. 1A, 600V fuse in **μA** and **mA**; 15A, 600V fuse in **A**.

To test fuses, remove test leads from any power source; select **V⎓** or **V∼** Plug a test lead into **μA mA** input. Meter clicks if fuse is good (Input Alert™). Move test lead to **A** input. Meter clicks if fuse is good.

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